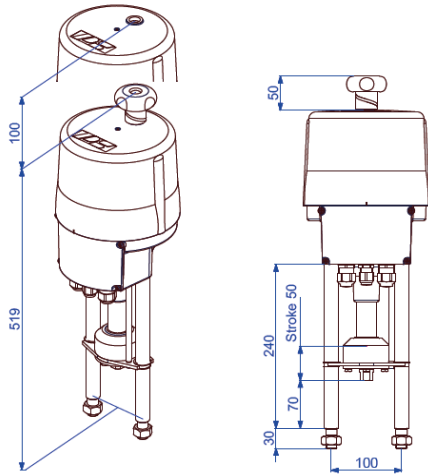


Intelligent Linear Actuator

PSL210
AMS1x

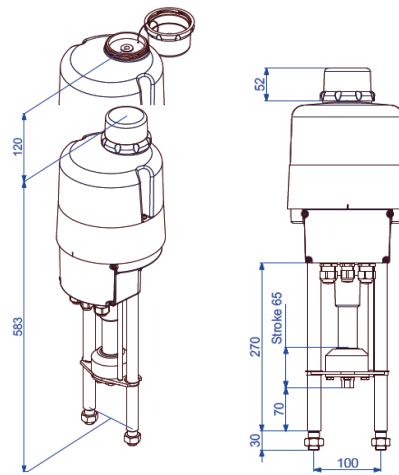
Stroke 50 (IP65)



Approx. weight: 10 kg without accessories

Dimensions are only valid up to and including connection M16!

Stroke 65 (IP67)



Approx. weight: 10 kg without accessories

Dimensions are only valid up to and including connection M16!

Positioner integrated

10 kN
Max. force)¹

0.2 - 1.7 mm/s
Operating speed

Stroke 50 mm
opt. 65 mm

Modulating actuator
Class C
DIN EN ISO 22153

Enclosure IP65
EN 60529

Operating speed	0.2 - 0.35 mm/s (adjustable)				PSL210 AMS11
Power supply [V]	230 VAC 1~	115 VAC 1~	24 VAC/DC	360...575 VAC 3~) ²	
Nominal current) ⁴ [A]	0.18	0.37	1.76(AC) / 1.1(DC)	0.15) ³	
Max. current) ⁴ [A]	0.24	0.48	2.3(AC) / 1.4(DC)	0.2) ³	
Power consumption) ⁵ [W]	32	32	30(AC) / 26(DC)	41) ³	
Operating speed	0.85 - 1.7 mm/s (adjustable)				PSL210 AMS12
Power supply [V]	230 VAC 1~	115 VAC 1~	24 VAC/DC	360...575 VAC 3~) ²	
Nominal current) ⁴ [A]	0.42	0.84	4(AC) / 2.5(DC)	0.31) ³	
Max. current) ⁴ [A]	0.55	1.1	5.3(AC) / 3.3(DC)	0.4) ³	
Power consumption) ⁵ [W]	78	78	73(AC) / 61(DC)	82) ³	
Standard	Description				Standard equipment
Ambient temperature [°C]	-20 to +60 °C				
Motor protection	Electronic motor current monitoring with safety cut-off				
Oversvoltage category	II				
Break away force	Adjustable up to +50% nominal force				
Duty cycle IEC 60034-1,8	S2 30min S4 50% ED @ 25°C				
Set value and feedback	0 (4)..20 mA or 0 (2)..10 V selectable, split range operation				
Binary control	24 V - 230 V for ON/OFF control (min. duration of pulse 1s)				
Valve positioner function	Integrated positioner, deadband adjustable from 0.5 .. 5%, shut-off minimum				
Automatic start-up	Recognizing the end position(s) and autoscaling set and feedback values				
Internal fault monitoring	Torque, set value, temperature, power supply, positioning deviation etc., adjustable				
Fault indication relay FIR	Potential-free opening contact provides a freely definable collective fault signal				
Diagnostics function	Stores cumulated operation data (motor and total running time, number of motor starts) and data sets of current values (set value, feedback value, torque, temperature and error messages)				
Communication interface	Connecting to a USB port and a software, allows data reading and parametrisation				
Cable glands	2 pcs. M20 x 1,5 and 1 pcs. M16 x 1,5				

)¹ = permissible average force over the entire travel is 50% of the max. thrust

)² = max. input voltage range

)³ = at 400 V 3 ~ and 50 Hz

)⁴ = data may vary depending on accessories

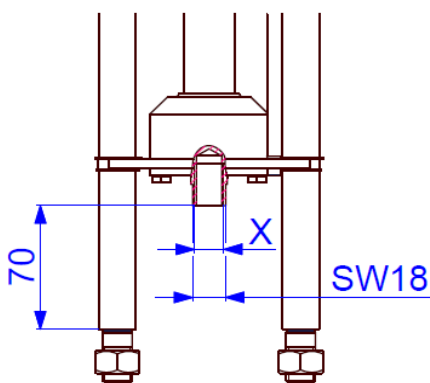
)⁵ = at max. force, data may vary depending on accessories

Electrical connection plan

1-Phasen Wechselspannung / DC 1-Phase AC / DC																					3-Phasen 3-Phase AC												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	PE	(Option)	RJ-45 TTL	Taster Button	L1	L2	L3	PE			
↕	↕	↕	↕	↕	↕	↕↕	↕↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕↕	↕↕	↕↕	↕↕	↕	↕	↕	(Option)			↕	↕	↕	↕			
+ 0(2) - 10 V	+ 0(4) - 20 mA	GND	+ 0(2) - 10 V	+ 0(4) - 20 mA	GND	24 VDC	max. Last / max. Load 100 mA bei / at	L+ AUF/OPEN	N-	L+ ZU/CLOSE	N- (24V AC/DC - 230VAC)	L+ (24V AC/DC - 230VAC)	21 - 40 VDC / 100 mA	+ 0(2) - 10 V	+ 0(4) - 20 mA	GND	(Option)	(Option)	(Option)	(Option)	(Option)	L+ (siehe Typenschild/ see tag plate)	N- (siehe Typenschild/ see tag plate)	PE	(Option)			400 VAC	400 VAC	400 VAC	Schutzleiter / protective conductor		
Sollwert-Eingang	Aktive Positionsrückmeldung		Stormeldung potentialfrei	Binäre Ansteuerung	Netz-ausfall-signal	Ver-sorgung	Istwert	Zu / Closed	Auf / Open	Wegschalter potentialfreier Kontakt	Versorgungs-spannung	Feldbus-Anschluss	PC Kommu-nikation	Inbetrieb-nahme	Versorgungs-spannung						Versorgungs-spannung	Feldbus-Anschluss	PC Kommu-nikation	Inbetrieb-nahme								Schaltnetzteil	
Set value input	Active position feedback		Monitor relay potential-free	Binary input signals	Fail safe signal	Supply	Actual value	Position switch potential-free contact														Power supply voltage	Fieldbus interface	PC communication	Commissioning								
Galvanisch getrennt / Galvanically isolated 1 kV														Process-Sensor																			

Dimensions of the PS standard adaptation

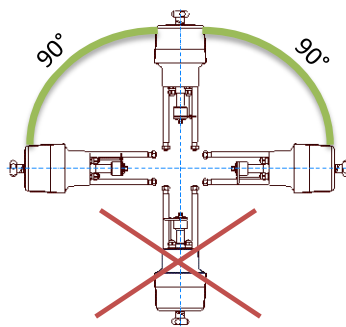
Mounting position



Connection Thread X

M8	Optional
M10	Optional
M12	Optional
M14	Optional
M16	Standard

Fine threaded and other sizes on request!



Accessories/options

Add'l position switches	2WE	Potential-free additional position switches with silver contacts (0.1 A - 10 A switching current)
Add'l position switches gold	Gold	Potential-free additional position switches with gold contacts (0.1 mA - 100 mA switching current)
Integrated process controller	PSIC	Enables the autonomous control of a process so that an external controller is not required.
Fail-safe*	PSCP	Emergency power supply based on supercapacitors, safety position OPEN, CLOSED or free defined position
Fieldbus interface*		Digital transmission of nominal and actual value per mill or percent, report of monitoring and diagnostic data using Profibus DP (PSPDP) or CANOpen (PSCA) interfaces, additional interfaces available on request
Local control	PSC.2	Illuminated display to show the actuator status and lockable selector to switch between modes: automatic, manual process ON/OFF, STOP and parameter menu. Control buttons for manual movement, menu operation and adjustment of parameters, display of diagnostic information
Remote local control		Mounting separately from the actuator (incl. 10 m connection cable)
Data cable	PSCS-USB	USB data cable enables the communication between the actuator and a PC by using the software PSCS
Fail-safe port*	FSP	Signal port to drive to a "safety position", selectable fail-safe position, standard 24 - 230 V
IP67		Increased enclosure IP67
Heating resistor	HR	Heating resistor to prevent condensation

*not retrofittable

For more information and accessories, please visit our website www.ps-automation.com!

Subject to changes!